CIVIL-TECH CONSULTANTS AND ENGINEERS

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Job No.: CTCE/BBMP/SC/W.No.06/CSR-59b/CEMENT/2021-22

Date: 16.03.2022

TEST REPORT

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s.Soorya Creators,** Prop.Sri.P.Hemanth, #109-110, 4th Cross, 6th Main, Vivekananda Road, Balaji Layout, R.M.V. Stage, Bangalore – 560094.
* Name of Work	:	Maintenance of UGD line in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/34/2021-22 Dated : 04.02.2022
* Sample ID	:	Cement
Sample Received on	:	14.03.2022
Period of Testing	:	14.03.2022 to 16.03.2022
Report Issue Date	:	16.03.2022

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015 (2020)
1	Standard Consistency	IS-4031 (Part -4) : 1988 (RA-2019)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	190 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	385 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) : 1988 (RA-2019)	1.00 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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M/s. Civil-Tech Consultants & Engineers

Pooja K. L.

Authorised Signatory

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.

Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com

e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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16.03.2022

Job No.: CTCE/BBMP/SC/W.No.06/CSR-59b/SAND-Gradation/2021-22

TEST REPORT SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s.Soorya Creators,** Prop.Sri.P.Hemanth, #109-110, 4th Cross, 6th Main, Vivekananda Road, Balaji Layout, R.M.V. Stage, Bangalore – 560094.
* Name of Work	:	Maintenance of UGD line in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/34/2021-22 Dated : 04.02.2022
* Sample ID	:	Fine Aggregates (Manufactured Sand)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2021)
Sample Received On	:	14.03.2022
Date of Testing	:	16.03.2022
Report Issue Date	:	16.03.2022

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-2016			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	97.00	90-100	90-100	90-100	95-100
2.36	79.00	60-95	75-100	85-100	95-100
1.18	58.80	30-70	55-90	75-100	90-100
600 Micron	37.20	15-34	35-59	60-79	80-100
300 Micron	14.70	5-20	8-30	12-40	15-50
150 Micron	3.40	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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Note 1 :
For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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Pooja K. L.
Authorised Signatory

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e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/SC/W.No.06/CSR-59b/AGG/GR/2021-22

16.03.2022

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s.Soorya Creators,** Prop.Sri.P.Hemanth, #109-110, 4th Cross, 6th Main, Vivekananda Road, Balaji Layout, R.M.V. Stage, Bangalore – 560094.
* Name of Work	:	Maintenance of UGD line in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/34/2021-22 Dated : 04.02.2022
* Sample ID	:	Coarse Aggregates (40mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2021)
Sample Received on	:	14.03.2022
Date of Testing	:	16.03.2022
Report Issue Date	:	16.03.2022

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.36	95-100	85-100
20	37.52	30-70	0-20
10	17.12	10-35	0-5
4.75	3.42	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Authorised Signatory

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e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/SC/W.No.06/CSR-59b/AGG/GR/2021-22

16.03.2022

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s.Soorya Creators,** Prop.Sri.P.Hemanth, #109-110, 4th Cross, 6th Main, Vivekananda Road, Balaji Layout, R.M.V. Stage, Bangalore – 560094.
* Name of Work	:	Maintenance of UGD line in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/34/2021-22 Dated : 04.02.2022
* Sample ID	:	Coarse Aggregates (20mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963(RA-2021)
Sample Received on	:	14.03.2022
Date of Testing	:	16.03.2022
Report Issue Date	:	16.03.2022

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
40	100	100	100
20	92.36	90-100	85-100
10	31.96	25-55	0-20
4.75	5.50	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Authorised Signatory

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e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/SC/W.No.06/RCCPipe/2021-22

18.03.2022

TEST REPORT ON CONCRETE PIPES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s.Soorya Creators,** Prop.Sri.P.Hemanth, #109-110, 4th Cross, 6th Main, Vivekananda Road, Balaji Layout, R.M.V. Stage, Bangalore – 560094.
* Name of the work	:	Maintenance of UGD line in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/34/2021-22 Dated : 04.02.2022
* Sample ID	:	Concrete pipes of Class NP_3
Test Method as per	:	IS-458:2021
Date of Testing	:	18.03.2022
Report Issue Date	:	18.03.2022

Sl No	Description	Test Result	Requirements as per IS 458:2021
1	Internal Diameter in mm	600 mm	600 ± 5mm
2	Barrel wall Thickness in mm	85.6 mm	85mm +5mm - 2.5mm
3	Outer Diameter in mm	771.2 mm	-

*Information is furnished by the Customer/Representative.

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Authorised Signatory

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18.03.2022

Job No.: CTCE/BBMP/SC/W.No.06/RCCPipe/2021-22

TEST REPORT ON CONCRETE PIPES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s.Soorya Creators,** Prop.Sri.P.Hemanth, #109-110, 4th Cross, 6th Main, Vivekananda Road, Balaji Layout, R.M.V. Stage, Bangalore – 560094.
* Name of the work	:	Maintenance of UGD line in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/34/2021-22 Dated : 04.02.2022
* Sample ID	:	Concrete pipes of Class NP_3
Test Method as per	:	IS-458:2021
Date of Testing	:	18.03.2022
Report Issue Date	:	18.03.2022

Sl No	Description	Test Result	Requirements as per IS 458:2021
1	Internal Diameter in mm	450mm	450 ± 5mm
2	Barrel wall Thickness in mm	75.2mm	75mm +5mm - 2.5mm
3	Outer Diameter in mm	600.2mm	-

*Information is furnished by the Customer/Representative.

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********** END OF REPORT **********

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Authorised Signatory

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.

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Job No.: CTCE/BBMP/SC/W.No.06/WMM/Gradation/2021-22

23.03.2022

TEST REPORT ON GRADATION OF WET MIX MACADAM

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s.Soorya Creators,** Prop.Sri.P.Hemanth, #109-110, 4th Cross, 6th Main, Vivekananda Road, Balaji Layout, R.M.V. Stage, Bangalore – 560094.
* Name of Work	:	Maintenance of UGD line in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/34/2021-22 Dated : 04.02.2022
Sample ID	:	Wet Mix Macadam
Test Method as per	:	IS - 2386 (part-1) : 1963 (RA-2021)
Date of Testing	:	23.03.2022
Report Issue Date	:	23.03.2022

Oven Dry Wt (gm): 5000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits As per Morth Table 400-13
53	0	0	0	100	100
45	125	125	2.5	97.5	95-100
22.4	1260	1385	27.70	72.30	60-80
11.2	1085	2470	49.40	50.60	40-60
4.75	670	3140	62.80	37.20	25-40
2.36	615	3755	75.10	24.90	15-30
0.600	515	4270	85.40	14.60	8-22
0.075	585	4855	97.10	2.90	0-5

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Pooja K. L

Authorised Signatory

****

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
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Job No.: CTCE/BBMP/SC/W.No.06/WMM/AIV/2021-22

23.03.2022

TEST REPORT ON IMPACT VALUE OF AGGREGATE

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s.Soorya Creators,** Prop.Sri.P.Hemanth, #109-110, 4th Cross, 6th Main, Vivekananda Road, Balaji Layout, R.M.V. Stage, Bangalore – 560094.
* Name of Work	:	Maintenance of UGD line in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/34/2021-22 Dated : 04.02.2022
* Sample ID	:	Wet Mix Macadam
Test Method as per	:	IS - 2386(Part -4) : 1963 (RA-2021)
Date of Testing	:	23.03.2022
Report Issue Date	:	23.03.2022

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	392	393	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	90	91	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	302	302	
4	Aggregate Impact value = percent fines 100* (W2/W1)%	22.96	23.16	23.06

*Information is furnished by the Customer/Representative.

Comments:

→ Maximum allowable Aggregate Impact value for Wet Mix Macadam is 30%

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Job No.: CTCE/BBMP/SC/W.No.06/WMM/Shape:T/2021-22

23.03.2022

TEST REPORT ON FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s.Soorya Creators,** Prop.Sri.P.Hemanth, #109-110, 4th Cross, 6th Main, Vivekananda Road, Balaji Layout, R.M.V. Stage, Bangalore – 560094.
* Name of Work	:	Maintenance of UGD line in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/34/2021-22 Dated : 04.02.2022
* Sample ID	:	Wet Mix Macadam
Test Method as per	:	IS - 2386(Part 1) : 1963 (RA 2021)
Date of Testing	:	23.03.2022
Report Issue Date	:	23.03.2022

Sl.No.	Description	Result
1	Flakiness Index	12.95%
2	Elongation Index	13.15%
3	Combined Flakiness & Elongation Index	26.10%

*Information is furnished by the Customer/Representative.

Comments:

→ Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 35%

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Job No.: CTCE/BBMP/SC/W.No.06/CSR-59b/Cube/2022-23 27.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s.Soorya Creators,** Prop.Sri.P.Hemanth, #109-110, 4th Cross, 6th Main, Vivekananda Road, Balaji Layout, R.M.V. Stage, Bangalore – 560094.
* Name of the work	:	Maintenance of UGD line in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/34/2021-22 Dated : 04.02.2022
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	27.04.2022
Report Issue Date	:	27.04.2022

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.03.2022	27.04.2022	8.152	478.9	21.28
2	30.03.2022	27.04.2022	8.256	485.7	21.59
3	30.03.2022	27.04.2022	8.302	512.2	22.76

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/SC/W.No.06/CSR-59b/Cube/2022-23 27.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s.Soorya Creators,** Prop.Sri.P.Hemanth, #109-110, 4th Cross, 6th Main, Vivekananda Road, Balaji Layout, R.M.V. Stage, Bangalore – 560094.
* Name of the work	:	Maintenance of UGD line in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/34/2021-22 Dated : 04.02.2022
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	27.04.2022
Report Issue Date	:	27.04.2022

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.03.2022	27.04.2022	8.216	512.3	22.77
2	30.03.2022	27.04.2022	8.390	522.6	23.23
3	30.03.2022	27.04.2022	8.415	532.4	23.66

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/SC/W.No.06/CSR-59b/Cube/2022-23 27.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**M/s.Soorya Creators,** Prop.Sri.P.Hemanth, #109-110, 4th Cross, 6th Main, Vivekananda Road, Balaji Layout, R.M.V. Stage, Bangalore – 560094.
* Name of the work	:	Maintenance of UGD line in Ward No.06, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/34/2021-22 Dated : 04.02.2022
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	27.04.2022
Report Issue Date	:	27.04.2022

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.03.2022	27.04.2022	8.110	475.5	21.13
2	30.03.2022	27.04.2022	8.230	485.6	21.58
3	30.03.2022	27.04.2022	8.380	508.9	22.62

*Information is furnished by the Customer/Representative.

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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M/s. Civil-Tech Consultants & Engineers

Pooja K. L.

Authorised Signatory

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.

Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com

e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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ABSTRACT OF FREQUENCY OF TESTS CARRIED OUT

Name of Work : Maintenance of UGD line in Ward No.06, BBMP, Bangalore.

Type of Road Surface	Minimum Number of Tests as per IRC norms	Number of Test done during execution	Percentage of Tests carried out as per IRC norms
I	II	III	IV
WMM	3	3	100%
CIVIL WORKS	9	9	100%
TOTAL	12	12	100%

M/s. Civil-Tech Consultants & Engineers

Pooja K. L.

Authorised Signatory

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79. Tele fax : 23223227, Cell : 93428 3919

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ABSTRACT OF FREQUENCY OF TESTS CARRIED OUT

Name of Work : Maintenance of UGD line in Ward No.06, BBMP, Bangalore.

Test as per IRC Norms	Frequency of test as per IRC Norms	WMM		
		Total Quantity executed **5.40 cum**		
For WMM Works		Minimum tests Required as per IRC norms	Actually test done during execution	Percentage of test carried as per IRC Norms
Gradation	1test per 200 cu. Mt. of aggregate	1	1	100%
Aggregate Impact Value	1 test per 1000 cu. Mt. of aggregate	1	1	100%
Flakiness and Elongation Index	1 test per 500 cu. Mt. of aggregate	1	1	100%
Total		3	3	100%

M/s. Civil-Tech Consultants & Engineers

Pooja K.L.

Authorised Signatory

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ABSTRACT OF FREQUENCY OF TESTS CARRIED OUT

Name of Work : Maintenance of UGD line in Ward No.06, BBMP, Bangalore.

Description	Quantity	Unit	Total Number of test to be carried out as per IRC	Actual Number of Test to be conducted	% Completed
I	II	III	IV	V	IV
1) PCC 1:2:4 a)Cement b)M-Sand c)Aggregate 40MM d)Aggregate 20MM	40.32	Cum	4	4	100%
2)NP3 Pipe - 600MM & 450MM dia	62.4	Rmt	2	2	100%
3)Cube M20	11.4	Cum	3	3	100%
TOTAL			**9**	**9**	**100%**

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Authorised Signatory

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